

DERWENT-ACC-NO: 2001-650424

DERWENT-WEEK: 200175

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TITLE: Fuel evaporator for fuel cell, e.g. for electric vehicle, has gas temperature control chamber which exchanges heat and regulates temperature of hot gas generated by evaporating fuel

PATENT-ASSIGNEE: HONDA MOTOR CO LTD[HOND]

PRIORITY-DATA: 1999JP-0363481 (December 21, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
JP 2001180904 A	July 3, 2001	N/A	022
C01B 003/32			

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
JP2001180904A	N/A	1999JP-0363481
December 21, 1999		

INT-CL (IPC): C01B003/32, F23K005/22 , H01M008/06

RELATED-ACC-NO: 2001-650422, 2001-650423

ABSTRACTED-PUB-NO: JP2001180904A

BASIC-ABSTRACT:

NOVELTY - A main evaporation chamber (11) divided into several auxiliary chambers (11A-11C), evaporates fuel supplied by fuel injectors by high temperature heat carrier (HG), to get a hot gas (FG). A gas temperature control chamber (30) exchanges heat and controls temperature of the hot gas sent from the evaporation chamber.

USE - For fuel cell of electricity generation system e.g. for electric vehicle,

ADVANTAGE - Temperature non-uniformity of the hot gas evaporated by the evaporation chamber is prevented by gas temperature control channel. The evaporation capability is easily changed by regulating supply of fuel to each chamber, from corresponding injector accurately.

DESCRIPTION OF DRAWING(S) - The drawing shows the partially exploded plan view of the fuel evaporator. (The drawing includes non-English language text).

main evaporation chamber 11

auxiliary chambers 11A-11C

gas temperature control chamber 30

hot gas FG

high temperature heat carrier HG

CHOSEN-DRAWING: Dwg.2/18

DERWENT-CLASS: L03 Q73 X16 X21

CPI-CODES: L03-E04;

EPI-CODES: X16-C09; X16-C17; X21-A01F; X21-B01A;